

CLAIMS

1. An optical disc recording medium, comprising:
 - a first substrate having a physically pre-formatted surface;
 - a reflective film formed on said pre-formatted surface of said first substrate;
 - a transparent layer with a thickness of 50-430 μm formed on said reflective film;
 - 10 a second substrate composed of transparent material and located at a distance of certain spacing from said transparent layer; and
 - a recording layer for hologram recording filled between said transparent layer and said second substrate.
- 15 2. An optical disc recording medium, comprising:
 - a transparent film with a thickness of 50-430 μm having a physically pre-formatted surface;
 - a reflective film formed on said pre-formatted surface of said transparent film;
 - 20 a first substrate arranged to support said transparent film interposing said reflective film therebetween;
 - a second substrate composed of transparent material and located at a distance of certain spacing from said transparent film; and
 - 25 a recording layer for hologram recording filled between said transparent layer and said second substrate.
3. The optical disc recording medium according to claim 1 or 2, wherein said transparent layer has a thickness of about 200 μm .
- 30 4. The optical disc recording medium according to any one of claims 1-3, wherein said first and second substrates have thicknesses of 0.5 mm or more.

5. A method of manufacturing an optical disc recording medium, comprising the steps of:

forming embossed pits on a surface of a first substrate;

forming a reflective film on said embossed-pits-formed surface of said first substrate;

5 forming a transparent layer with a thickness of 50-430 µm on said reflective-film-formed surface of said first substrate;

10 locating a transparent second substrate at a distance of certain spacing from said first substrate so as to interpose said transparent layer therebetween; and

filling a recording material for hologram recording between said first substrate and said second substrate to form a recording layer.

15 6. The method of manufacturing an optical disc recording medium according to claim 5, wherein the step of forming a transparent layer comprises the step of adhering a transparent film on said reflective-film-formed surface of said first substrate.

20 7. A method of manufacturing an optical disc recording medium, comprising the steps of:

forming embossed pits on a surface of a transparent film with a thickness of 50-430 µm;

25 forming a reflective film on said embossed-pits-formed surface of said transparent film;

adhering said transparent film on said first substrate interposing said reflective film therebetween;

locating a transparent second substrate at a distance of certain spacing from said first substrate so as to interpose 30 said transparent film therebetween; and

filling a recording material for hologram recording between said first substrate and said second substrate to form

a recording layer.

8. The method of manufacturing an optical disc recording medium according to claim 5 or 7, wherein the step of filling a recording material comprises the step of filling 5 a recording material by reducing pressure in said spacing between said first and second substrates.

9. A method of manufacturing an optical disc recording medium, comprising the steps of:

forming embossed pits on a surface of a first substrate;

10 forming a reflective film on said embossed-pits-formed surface of said first substrate;

fixing a transparent plate with a thickness of 50-430 µm on the upper surface of a holder, applying a liquid recording material on said transparent plate, and pressing a transparent 15 second substrate against said recording material to form a recording layer composed of said recording material between said transparent plate and said second substrate, thus forming a triple-layered structure; and

bonding said reflective-film-formed first substrate and 20 said triple-layered structure together, locating said reflective film faced to said transparent plate.

10. The method of manufacturing an optical disc recording medium according to claim 5, 7 or 9, further comprising the step of forming a protective film on said reflective film 25 formed in the step of forming a reflective film.